# BRUHATH BANGALORE MAHANAGARA PALIKE, DASARAHALLI ZONE
## EXCECUTIVE ENGINEER, PROJECT DIVISION
## SCHEDULE - B

**Name of work: Improvement and repair works in parks in Ward no 14**

**Name of the Contractor:KRIDL**

| Sl No | Description of Work | Unit | Sanctioned | |
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| | | | Qty | Rate |
| 1 | Dismantling size stone masonry in clay mortar and stacking the size stone within a radius of 50m and removing the debris to a distance upto 200m. | Cum | 17.55 | 285.76 |
| 2 | Dismantling expanded metal or IRC fabric with weld mesh necessary battens and beading etc., including stacking the serviceable materials within 50 m lead. | Sqm | 465.25 | 117.28 |
| 3 | KSRRB 300-2. Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 | Cum | 449.11 | 222.04 |
| 4 | KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No. KBS 4.1,4.2 | Cum | 142.095<br>142.10 | 5449.68 |
| 5 | KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 | Cum | 108.36 | 5405.40 |
| 6 | KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and as per directions of the Engineer-in-charge. Specification No. KBS 4.6.3- TMT bars Fe 500 (Issued Rate 18-12-2017) | T | 0.44 | 64243.42 |
| 7 | KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregtes @ 0.43cum, with superplastisiser @ltrs confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4. | Cum | 38.711<br>38.71 | 5985.36 |
| 8 | KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2.(Page No.-15 I.No-4.31 of KPWD S.R 2015-16 ) | Sqm | 121.4 | 316.44 |

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| 9 | KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200mm having block density not less than 1800kg/m3 ving a minimum average compressive strength of 4.00 N/rrim2 confirming to JS 2185 (Part 1 ):2005 and constructed with CM 1:4, as per IS 2572:2005 \ including cost of ail materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.54 | Sqm | 17.70 | 1011.96 |
| 10 | KSRB 24-13 : Removing the old paint from steel and / or other metal surface with hand scraping and making surface even including cost of labour, complete as per specifications. Specification No.KBS | Sqm | 4306.99 | 56.16 |
| 11 | KSRB 24-10 : Removing the old paint or polish from wood and / or wood based surface with paint remover of approved brand / manufacturer and making surface even including cost of materials, labour, complete as per specifications. Specification No. KBS | Sqm | 850.293<br>850.29 | 49.68 |
| 12 | Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materialscutting, bending scaffolding wherever necessary, nicely finishing the weldedjoints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting ( excluding cost of earthwork and concrete) | Rmt | 229 | 884.52 |
| 13 | Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between / the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. specification. No. | Rmt | 1150 | 349.92 |
| 14 | Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint specification. No. | Sqm | 502.5 | 711.72 |
| 15 | Fabricating, providing and erecting in poiston of Hot dip galvanised MS Ornamental security Grill using 75 x 12mm M S Flat for alround frame work with verticals at the centre and horizontal centere support MS Square of 20 x20 mm of different heights as shown in the drawing are to be fixed at 16 cms C/C for suqare bars of full height and at 8cms C I C for bottom rods providg ornamental C I Designers at the botom and C I arrows inthe midle and top. The entire frame work is to be fixed by means of expansion bolts to the brick pillars with necesary drilliing holes, the work includes providng two coats of enamel painting over one coatr of red lead ready mix primer coat etc complete cost of all labour, painting, erection charges using hoist pulleycranes with all lead and lift, loading, transporting and unloading using hoist pulley cranes, scaffolding charges and all other incidental charges required for successful completion fo the work as per specification and drawings, | Kgs | 5025 | 171.72 |
| 16 | KSRB 15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curingetc., complete as per specification. | Sqm | 208.5 | 279.72 |
| 17 | KSRB 15.1.5 Providing raised and cut pointing to coursed stone masonry with cement mortar 1:3,20mm, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. specification. No. | Sqm | 1398 | 154.44 |

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| 18 | KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. | Sqm | 5617.98 | 31.32 |
| 19 | KSRB15-18.3 : Providing and applying enamel metal paint one coat (excluding priming coat) on previously painted steel or other metalsurface brushing to give an even shade after cleaning oil, grease, dirtand other foreign matter, including cost of materials, labour, completeas per specifications. | Sqm | 4306.99 | 55.08 |
| 20 | KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. | Sqm | 1310.99 | 88.56 |
| 21 | Removing and resetting of footpath slab | Sqm | 1635.5 | 135.00 |
| 22 | Removing and resetting of kerb stones | M | 1496 | 66.96 |
| 23 | Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. | No. | 1273.33 | 338.04 |
| 24 | KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. | Sqm | 1137.95 | 64.80 |
| 25 | KSRB 14.6-1: Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface jpints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications Specification No. KBS | Sqm | 704.5 | 1047.60 |
| 26 | Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall surface with wire brush of medium size emery stone to remove all the loosely adhering particles, the surface is then cleaned with water and ensured that it is in line and level. The textured material is then mixed with 40-50% of clean water until a homogeneous thick slurry is formed, the slurry is left for 5-10 min, to react completely with ingredients. The textured finish prepared as above is then applied to the wall surface with suitable roller/spray gun/putty/ blade/ trowel to get the desired finish. The finished surface shall be applied with two coats of exterior paint of approved shade. The rate includes providing and removing scaffolding, all lead and lift and all other incidental charges etc., complete as per directions of the Engineer-in-charge of the work. | Sqm | 827.593<br>827.59 | 375.84 |
| 27 | Providing and fixing RCC name board of size 1.35xk0.60x0.04 mtrs fixed in reinforced cement concrete poles of size 0.10x0.10x2.60mtrs in cementconcrete M 20 proportion using 20mm and down size graded metal machine mixed with 10mm dia main steel bars and 8mm dia stirpes as shown in drawing. The board shall be provided with 12mm thick cement plaster in cement mortar 1:3 on both the sides. The poles shall be embedded in the ground for a depth of 0.5 mtrs with cement concrete M 10 proportion. The board shall be fixed as per the drawing and at the place indicated -by the Engineering charge of the work. The cost includes excavation, cost of all materials, cost of steel, centering, transportation charges, fixing charges etc., The work shall be carried out as per the detailed specifications, drawings and directions of the Engineer in charge of the work.specification. No. KBS 37.60 PWD | Each | 4 | 5346.00 |

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| 28 | Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at \the top cast iron spikes are provided at alternate vertical members as Shown in the drawing etc., complete. All the steel surface should be horoughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for ail items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification. | Sqm | 13.44 | 3168.72 |
| 29 | Joint Bench Made out of sadarahalli Grey Stone with stone legs with back supporter, with 150mm slab with 4line finishing | Each | 42 | 10500.00 |
| 30 | KSRB 12-8.1 : Constructing brick masonry inspection chamber 450x450mm and 450mm depth (clear inside dimension) for Nos. single pipeline, using table moulded non-modular bricks of classdesignation 50 in cement mortar 1:5, C.I cover withframe (light duty) 450x450mm internal dimensions, total weight of cover with frame to be not less than 38 kg ( weight of cover 23kg and weight of frame 15 kg) R.C.C, top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS | Nos | 2 | 7604.28 |
| 31 | 3002 PVC Pipes 10KG/Sqcm 110mm outerdia | M | 40 | 510.00 |
| 32 | Providing and fixing of windows made of pre-painted steel (base steel as of Per ,s 513 of 0-58mm tick galvanized as per IS 277 with zinc of 120 SM). Primer coated with epoxy primer of 5-7 microns thick, finish Painted witha a polyester paint of 12-16 microns thick and back coated, 5-7microns thick alkyd backer. Section for outer frame should be 48x50mm, centre mullion should be of 48x50mm, section for shutter 48x25mm and fixed glass beading section should be of 12 x 12mm. Outer frame and mullions to have rebate for glazed shutter and a 20mm provision for guard bars/grills. The sections are to be cut length mitre joined with comer bracket. Centre mullion is to be fixed with mullion cap. Handle stay 2Nos of stainless steel heavy duty pivot hinges shall be provided for shutter. The window should be panelled with 5mm thick plain float glass. Rubber gaskets are to be provided all around he glass. The above frames should be fixed to the concrete/ masonry wall by means of self expanding screws, including 10mm square guard ars with 6 (152.4mm) pitch etc., complete for finished item of work.Centre fixed both side openable shutter window f f O W (1828.8mmx 219.2rnm). Outer frame section size of48x50mm shutter frame section size of48>c25mm mullion section size of48x50mm. Fixed beading section size of 12x12mm. | Sqm | 9.36 | 4962.60 |
| 33 | KSRB 7.3: Providing and fixing 1mm thick M.S. sheet garage door with Sqm frame and diagonal braces of size 40x40x6 mm angle Iron, 3.15mm thick M.S. Gusset plates at the junctions and corners, with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machinery complete as per specifications. Double leaf door of size 2.4x2.4m Specification No. KBS 7.9 / 7.12 | Sqm | 1.89 | 2518.56 |
| 34 | KSRB 0.5-3.1: Providing lime surkhi mortar of mix 1:3 (1 lime putty : 3 surkhi) including cost of all materials, labour charges, HOM of machin3ry complete as per specifications. Specification No. KBS | cum | 4.7295<br>4.73 | 3061.80 |
| 35 | KSRB 8.6-5: Providing and fixing on wall surface 2.5 kg / sq.cm H.D.P.E. rain down water pipes 90 mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs, screws, including cost of materials, labour, curing complete as per specifications | M | 15 | 429.84 |

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| 36 | Providing and laying pre-cast drain cover slab of 100mm thickness in CM1:3 including cost of all materials,labour,curing, transportation, loading, unloading etc.,as per doiirections of the Enineer-in-charge. {Data Rate sheet enclosed} | Sqm | 791 | 1873.00 |
| 37 | Providing & fixing Steel Dust Bins | Nos | 20 | 1500.00 |

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CONTRACTOR

Executive Engineer
Project division
Dasarahalli Zone, BBMP

# COMPLETION REPORT

| | | | |
|---|---|---|---|
| 1 | NAME OF WORK | : | **Improvements and repair works in parks of ward No.14.** |
| 2 | Sanctioned Estimate No. & Date | : | CE/DZ//TS/296/2017-18, Date:30/11/2017 |
| 3 | Head of account which is chargeable | : | **P-3215** |
| 4 | Name of Beneficiaries | : | M/s.KRIDL |
| 5 | Entrustment order No. & DT | : | EE/PD/WO/000018/2017-18, Date:05-01-2018 |
| 6 | a. Time Stipulated for completion of work | : | 180 days |
| | b. Actual date of completion | : | |
| | c. Delay in execution of work | : | |
| 7 | Measurement recorded in | : | M.B.No. 1897<br>Page No.189640 to 189660 & 189693 to 189697 |
| 8 | Check measurement of the Asst. Exe. Eng/Exe. Eng., on | : | –<br>– |
| 9 | Name of the office/official incharge of the work | : | Project sub division |
| 10 | a)Asst. Eng/junior Eng. | : | Sri.Siddarajegowda.B.S |
| | b)Asst. Exe. Engineer | : | Sri.Kumarappa.H |

| Sanctioned estimate amount | Amount claims as per actually vide as per bills | DIFERANCE | |
|---|---|---|---|
| | | Excess | Savings |
| 100.00 Lakhs | **Rs.9709541.77** | – | – |

1. Certified that the above work has been Completed within the stipulated time noted in the work order.
2. Certified that the contractor has delayed and complete the work for which necessary fine has been recovered.
3. Certified that the above work has been executed by the contractor satisfactorily in accordance with the specification as embodied in the agreement.

ASST. ENGINNER

ASST. EXE. ENGINEER

EXE. ENGINEER